# Contents of Volume 46

**Volume 46 No. 1 October (I) 1998**

*Review Article:*

PAUL J. SALLY, JR. / An Introduction to $p$-adic Fields, Harmonic Analysis and the Representation Theory of $SL_2$ 1–47

KAZUYUKI FUJII and TATSUO SUZUKI / Nonlinear Sigma Models in $(1 + 2)$ Dimensions and an Infinite Number of Conserved Currents 49–59

H. GROSSE and P. PREŠNAJDER / A Noncommutative Regularization of the Schwinger Model 61–69

ANDRÉ LICHNEROWICZ / First Eigenvalue of the Dirac Operator for a Kähler Manifold of Even Complex Dimension: The Limiting Case 71–80

DMITRY ROYTENBERG and ALAN WEINSTEIN / Courant Algebroids and Strongly Homotopy Lie Algebras 81–93

**Volume 46 No. 2 October (II) 1998**

K.-H. REHREN / Spin Statistics and CPT for Solitons 95–110

P. A. HORVÁTHY and J.-C. YÉRA / Vortex Solutions of the Liouville Equation 111–120

LUCA GUERRINI / Formal and Analytic Deformations of the Witt Algebra 121–129

A. RAMANI, B. GRAMMATICOS and S. LAFORTUNE / Schlesinger Transformations for Linearizable Equations 131–145

YASUSHI KOMORI / Notes on the Elliptic Ruijsenaars Operators 147–155

SERGIO FERRARA and CHRISTIAN FRØNSDAL / Gauge Fields and Singletons of $AdS_{2p+1}$ 157–169

HIDEKI OMORI, YOSHIAKI MAEDA, NAOYA MIYAZAKI and AKIRA YOSHIOKA / Deformation Quantizations of the Poisson Algebra of Laurent Polynomials 171–180

N. P. LANDSMAN / Twisted Lie Group $C^*$-Algebras as Strict Quantizations 181–188

**Volume 46 No. 3 November 1998**

M. GEKHTMAN / Hamiltonian Structure of Non-Abelian Toda Lattice 189–205

YU-KUI ZHOU / The Ising Model with Boundaries: Integrability and Functional Relations 207–218

SHOJI OKUMURA / The Self-Dual Einstein–Weyl Metric and Classical Solution of Painlevé VI 219–232

LUC VINET and ALEXEI ZHEDANOV / An Integrable Chain and Bi-Orthogonal Polynomials 233–245

OUMAROU BOUKARY BAOUA / Gelfand Pairs with Coherent States 247–263

LAURA ANDRIANOPOLI and SERGIO FERRARA / 'Nonchiral' Primary Superfields in the $\mathrm{Ad}_{d+1}/\mathrm{CFT}_d$ Correspondence 265–279

**Volume 46 No. 4 December 1998**

JOCHEN DITTMANN / Yang–Mills Equation and Bures Metric 281–287

MARTIN FLORIG / On Borchers' Theorem 289–293

H. J. BORCHERS / On Poincaré Transformations and the Modular Group of the Algebra Associated with a Wedge 295–301

DAVID DAMANIK / Singular Continuous Spectrum for a Class of Substitution Hamiltonians 303–311

ULRICH HERMISSON / Construction of Covariant Differential Calculi on Quantum Homogeneous Spaces 313–322

M. V. BABICH and D. A. KOROTKIN / Self-Dual SU(2)-Invariant Einstein Metrics and Modular Dependence of Theta Functions 323–337

MÉLANIE BERTELSON, PIERRE BIELIAVSKY and SIMONE GUTT / Parametrizing Equivalence Classes of Invariant Star Products 339–345

GU CHAOHAO (C. H. GU) / Unitons of Harmonic Maps from $R^2$ to $\mathrm{U}(p, q)$ 347–357

JUAN-PABLO ORTEGA and TUDOR S. RATIU / Singular Reduction of Poisson Manifolds 359–372